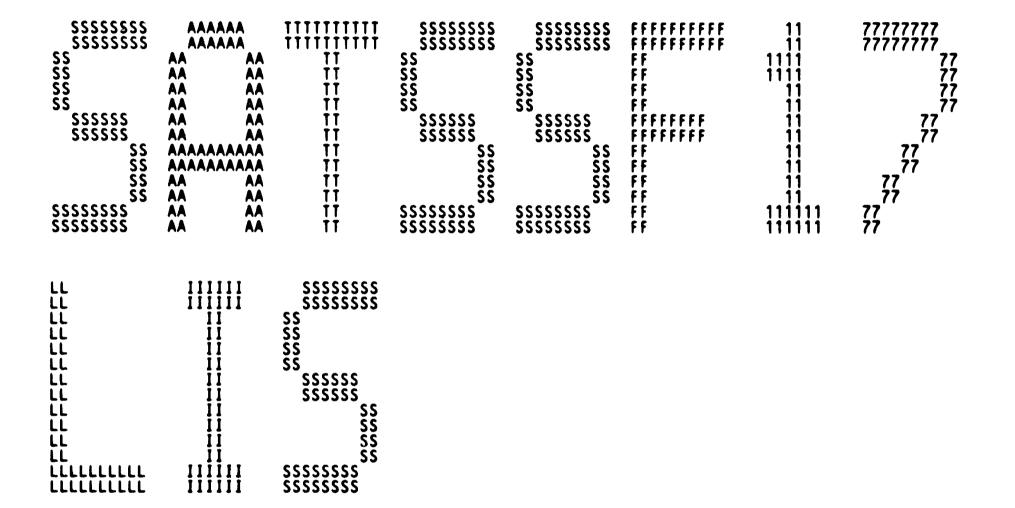
UUU UUU UUU UUU UUU	UUU UUU UUU UUU	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE		PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
UUU	UUU	EEE	ŤŤŤ	PPP PPP
ŬUŬ	ŬŬŬ	ĒĒĒ	ŤŤŤ	PPP PPP
UUU	UUU	EEE	TTT	PPP PPP
UUU	UUU	EEE	ΙΙΙ	PPP PPP
UUU	UUU	EEEEEEEEEE	III	PPPPPPPPPP
UUU	UUU	EEEEEEEEEE	ŢŢŢ	PPPPPPPPPPP
UUU	UUU	EEEEEEEEEE	ĬĬĬ	PPPPPPPPPPP
UUU	UUU	EEE	TTT	PPP
UUU	UUU	EEE	TTT	PPP
UUU	UUU	ĒĒĒ	TTT	PPP
UUU	UUU	EEE	TTT	PPP
UUU	UUU	EEE	TTT	PPP
UUU	UUU	EEE	TTT	PPP
	UUUUUUUU	EEEEEEEEEEEE	TTT	PPP
	UUUUUUUU	EEEEEEEEEEEE	TTT	PPP
UUUUUUU	UUUUUUUU	EEEEEEEEEEEE	TTT	PPP

Va ----00( 00( 7FI 7FI 7FI 7FI 7FI 7FI 7FI

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SA VO

Page

SATSSF17 Table of	contents	- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00
(1) (1) (1) (2) (2) (3) (3) (3) (3) (3) (3)	53 75 113 207 262 356 451 573 697 718 761 797 810	DECLARATIONS OWN STORAGE R/W PSECT SATSF17 INPUT TESTS OUTPUT TESTS QIO TESTS QIO TESTS QIOW TESTS REG_SAVE REG_CHECK PRINT_FAIL MOD_MSG_PRINT CHMRTN

```
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1
                                                                                                                        Page
                                                                                                                                 (1)
                                .TITLE SATSSF17 - SATS SYSTEM SERVICE TESTS (FAILING S.C.)
.IDENT 'V04-000'
       0000
       0000
       0000
       0000
       0000
                          COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
       0000
       0000
       0000
                          ALL RIGHTS RESERVED.
       0000
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                     * *
       0000
                 11
       0000
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       0000
                     *
                 14
                 15
       0000
       0000
                     *
                          TRANSFERRED.
                 16
       0000
                 17
                          THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
       0000
                     *
       0000
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                     *
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                 20
21
22
23
24
25
                     *
                          CORPORATION.
       0000
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                          DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
                          SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
       0000
       0000
       0000
                     0000
       0000
       0000
                 28
       0000
      0000
                     ; FACILITY:
                 30
                                          SATS SYSTEM SERVICE TESTS
      0000
                 31
      0000
                       ABSTRACT:
                                          The SATSSF17 module tests the execution of the following
      0000
                       VMS system services, invoked in such a way as to expect failing
      0000
                       status codes:
                 35 ;
      0000
                                          SINPUT
      0000
                 36
                                          SOUTPUT
      0000
                 37
                                          $010
      0000
                 38
                                          SQIOW
      0000
                 39
      0000
      0000
                 41
                       ENVIRONMENT: User mode image; needs CMKRNL privilege,
                 42
      0000
                                          dynamically acquires other privileges, as needed.
      0000
      0000
                       AUTHOR: Larry D. Jones,
                                                                        CREATION DATE: OCTOBER, 1979
      0000
                 45
                 46
      0000
                       MODIFIED BY:
      0000
                 48
```

LDJ0001 Larry D. Jones, 17-Sep-1980 Modified to conform to new build command procedures.

**B** 16

V03-001 LDJ0001

C000

51 :--

00000004

00000001

0000

0000

0000

0000

70 INFO

71 SEVERE

72 PRVHND\_SXV40

= 4

## C 16 - SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1 2 (1) Page 0000 MACRO LIBRARY CALLS privilege definitions UETP message definitions \$SHR MESSAGES UETP,116,<<TEXT,INFO>> ; UETP\$ TEXT definition \$PHDDEF ; process header definitions \$PCBDEF ; PCB definitions 60 61 62 63 \$SSDEF SS definitions 0000 **\$**STSDEF ; STS definitions 0000 64 : Equated symbols ŎŎŎŎ 0000 66 : 67 WARNING 00000000 0000 ; warning severity value for msgs 00000001 0000 68 SUCCESS = 1 ; success 00000002 0000 69 ERROR = 2 = 3 error

information "

; page 0 address for SETEXV

; fatal

. .

. .

```
SATSSF17
V04-000
                                          - SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 5-SEP-1984 04:22:23
                                                            75
76
77
                                                                                    OWN STORAGE
                                            0000000
                                                                           .PSECT
                                                                                    RODATA, RD, NOWRT, NOEXE, LONG
                                                 0000
                                                               TEST_MOD_NAME:
            37 31 46 53 53 54 41 53 00'
                                                                           TASCIC
                                                                                    /SATSSF17/
                                                                                                                    ; needed for SATSMS message
                                            ŎŠ.
                                                           80 TEST_MOD_NAME_D:
81 ASCID /SATSSF17/
46 53 53 54 41 53 00000011'010E0000'
                                                                                                                    : module name
                                        37 31
                                                 0017
                                                               TEST_MOD_BEGIN: .ASCIC /begun/
                                                 0019
                        6E 75 67 65 62 00'
                                                           84 TEST_MOD_SUCC:
85 .ASCIC
    6C 75 66 73 73 65 63 63 75 73 00'
                                                                                   /successful/
                                                 001F
                                                           86 TEST_MOD_FAIL:
87 .ASCIC
                    64 65 6C 69 61 66 00'
                                                                                   /failed/
                                            06
                                                            88 INPUT:
                        54 55 50 4E 49 00'
                                                            89
                                                                          .ASCIC /INPUT/
                                            05
                                                            90 OUTPUT:
                    54 55 50 54 55 4F 00'
                                                            91
                                                                          .ASCIC /OUTPUT/
                                            06
                                                           92 QIO:
93
                                4F 49 51 00'
                                                                          .ASCIC /QIO/
                                            03
                                                            94 QIOW:
                            57 4F 49 51 00'
                                                            95
                                                                          .ASCIC /QIOW/
                                           04
                                                           96 INADR:
                        00000000,000000000
                                                                          .LONG
                                                                                    NOACCESS, NOACCESS
                                                                                                                    ; page address of noaccess psect
                                                               PROT:
                                    00000000.
                                                                           .LONG
                                                                                    PRTSC_NA
                                                                                                                    ; protection code for no access psect
                                                 0053
                                                          100 PRVHND_SXV41:
                                                                                                                    ; read only access location
                                                          101 CS1:
21 20 74 73 65 54 0000005B'010E0000'6E 20 65 63 69 76 72 65 73 20 43 41 70 65 74 73 20 43 41 21 20 65 6D 61 2E 64 65 6C 69 61 66 20 4C 55 21 20
                                                          102
                                                                          .ASCID \Test !AC service name !AC step !UL failed.\
                                                 0061
                                                 006D
                                                 0079
                                                 0085
                                                          103 CS2:
74 63 65 70 78 45 0000008D 010E00000 4C 58 21 20 3D 20 53 41 21 20 64 65 41 21 20 64 65 76 69 65 63 65 72 20 4C 58 21 20 3D 20 53
                                                          104
                                                                          .ASCID \Expected !AS = !XL received !AS = !XL\
                                                 0093
                                                 009F
                                                 00AB
                                                          105 CS3:
74 63 65 70 78
20 30 20 42 55
64 65 76 69 65
58 21 20 30 20
                        000000BA'010E0000
                                                          106
                                                                          .ASCID \Expected !AS!UB = !XL received !AS!UB = !XL\
                   21 53 41 21 20 64 65
63 65 72 20 4C 58 21
42 55 21 53 41 21 20
                                                 0000
                                       58 21
21 20
                                                 ÓÓCC
                                                 0008
                                                 00E4
                                                 00E5
                                                          107 EXP:
73 75 74 61 74 73 000000ED'010E0000'
                                                 00E5
                                                          108
                                                                          .ASCID \status\
                                                          109 MBNAM:
                54 54 000000FB'010E0000'
                                                 00F3
                                                          110
                                                                          .ASCID \TT\
```

**3** (1)

```
SATSSF17
V04-000
                                   - SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 OWN STORAGE 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.M
                                         00FD
                                                112;
                                         OOFD
                                                              .SBTTL
                                                                       R/W PSECT
                                    0000000
                                                 114
                                                              PSECT
                                                                       RWDATA, RD, WRT, NOEXE, LONG
                                         0000
                                                 115
                                                     TPID:
                                                 116
                              00000000
                                                 117
                                                               LONG
                                                                                                 : PID for this process
                                                     CURRENT_TC:
                                                 118
                              0000000
                                                 119
                                                              .LONG
                                                                                                 ; ptr to current test case
                                                               ALIGN LONG
                                                     REG_SAVE_AREA:
                              00000044
                                                               BLKL
                                                                                                 ; register save area
                                                     MOD_MSG_CODE:
                              007480D9
                                                                      UETP$_SATSMS
                                                              .LONG
                                                                                                 ; test module message code for putmsq
                                                     TMN_ADDR:
                              00000000
                                                              .ADDRESS TEST_MOD_NAME
                                                     TMD_ADDR:
                              000000191
                                                              .ADDRESS TEST_MOD_BEGIN
                                                     PRVPRT:
                                    00
                                                              .BYTE
                                                                                                 ; protection return byte for SETPRT
                                                     PRIVMASK:
                    0000000 0000000
                                                               QUAD.
                                                                                                 ; priv. mask
                                                     CHM_CONT:
                              00000000
                                                              .LONG
                                                                                                 ; change mode continue address
                                                     RETADR:
                              00000065
                                                              .BLKL
                                                                                                 : returned address's from SETPRT
                                                     INP:
                                                              $INPUT 0.0.0
                                                                                                 : INPUT parameter list
                                                 139
                                                     OUT:
                                                 140
                                                              $00TPUT 0.0.0
                                                                                                 : OUTPUT parameter list
                                                 141
                                                     QIOP:
                                                              $010
                                                                       -1,0,IO$_READVBLK,0,0,0,MBNAM,0 : QIO parameter list
                                                 143
                                                     QIOWP:
                                                 144
                                                              $QIOW
                                                                       -1,0,IO$_READVBLK,0,0,0,MBNAM,0; QIOW parameter list
                                                 145
                                                 146
                                                     REG:
74 73 69 67 65 72 0000011D'010E0000'
                                                 147
                                                              .ASCID \register R\
                          52 20 72 65
                                                 148 REGNUM:
                              00000000
                                                 149
                                                              .LONG
                                                                                                 : register number
                                                 150
                                                     MSGL:
                                                 151
                              00000050
                                                              .LONG
                                                                      80
                                                                                                 : buffer desc.
                                                 152
153
                              00000133
                                                              .ADDRESS BUF
                                                     BUF:
                                                 154
155
                              00000183
                                                                       80
                                                              .BLKB
                                                     MESSAGEL:
                              00000000
                                                156
157
                                                              .LONG
                                                                      0
                                                                                                 ; message desc.
                              00000133
                                         0187
                                                               ADDRESS
                                                                               BUF
                                         018B
                                                 158
                                                     SERV_NAME:
                              0000000
                                         018B
                                                 159
                                                              .LONG
                                                                                                 ; service name pointer
                                         018F
                                                 160 MBCHAN:
                                         Ŏ18F
                                  0000
                                                 161
                                                              .WORD
                                                                                                 ; channel location
```

(1)

```
F 16
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 Page 5
R/W PSECT 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1 (1)
```

```
00000000
                                        SATS_ACCVIO_1,RD,WRT,NOEXE,PAGE
.BLKB 512 ; reserve a page
                                .PSECT
                   164 EMPTY:
00000200
           0000
                                                        ; reserve a page of space
           0500
0500
0500
0500
                   165
                   166
                   167
           ŎŽŎŎ
                   168
           ŎŽŎŎ
                   169
                                THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL.
           ŎŽÕŎ
                   170
                                DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS
                         *
           ŎŽŎŎ
                   171
                         *
                                FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE
                   172
173
           0200
                                OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS).
           0200
           0200
0200
                   175
           0200
           0200
                       PRVHND_SXV42
000001FF
                                                           ; prvhnd arg for SETEXV (last byte in the page)
000001F3
           0200
                   178
                                           _= . - 13
                                                           ; allow room for string descriptor
                       ; type AAAAA_SSSX5 go here:
           01F3
                                         LONG 6
00000006
           01F3
                                                           ; string length (will cross psect boundary)
000001FB
           01F7
                   181
                                          ADDRESS .+4
                                                           ; string address
                       ; type AAAAA_SSSX3 go here:
                  182
           01FB
000001FC
           01FB
                                          .BLKB
                                                           ; low-order byte of string length
                       ; type AAAAA_SSSX2 go here: .BLKL 1
           O1FC
00000200
           O1FC
                   185
                                                           ; string length
           0200
                   186
           0200
                   187
           0200
                   188
           0200
                   189
                                        SATS_ACCVIO_2,RD,WRT,NOEXE,PAGE
.BLKB 512 ; reserve a page
.=.-512 ; return loc cti
      0000000
                   190
                                 .PSECT
00000200
           0000
                       NOACCESS:
                                                           ; reserve a page of space
                  192
193
0000000
           0200
                                                           ; return loc ctr to beginning of psect
00000000
           U000
                                         .ADDRESS EMPTY
                                                             address of accessible string
00000000
           0004
                   194
                                         .ADDRESS EMPTY/^X100; address of accessible string
           8000
                   195
           0008
                   196
                       ; *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!
                       ; ***
           0008
                   197
                                       THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY
                       ; ***
           0008
                   198
                                       FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
                       ***
           0008
                   199
                                       CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
           8000
                   200
           3008
                   201
                  202
           0008
           8000
           8000
                   204
```

```
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 R/W PSECT 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1
                                                                                                                                Page
                                                                                                                                        (1)
 00000000
0000
0000
0000
                .PSECT SATSSF17,RD,WRT,EXE,LONG
                                  SBTTL SATSSF17
                      ; FUNCTIONAL DESCRIPTION:
                        After performing some initial housekeeping, such as printing the module begin message and acquiring needed privileges, the system services are tested in each of their failure conditions.
       ŎŎŎŎ
       ŎŎŎŎ
       ŎŎŎŎ
       ŎŎŎŎ
                         Detected failures are identified and an error message is printed
       ŎŎŎŎ
                         on the terminal. Upon completion of the test a success or fail
       0000
                         message is printed on the terminal.
       0000
                 218
       0000
                         CALLING SEQUENCE:
       0000
                219
       0000
                                 $ RUN SATSSF17 ... (DCL COMMAND)
       0000
       0000
                         INPUT PARAMETERS:
       0000
       0000
                                 none
       0000
                226
227
228
       0000
                         IMPLICIT INPUTS:
       0000
       0000
                                 none
       0000
                 230
       0000
                         OUTPUT PARAMETERS:
                231
232
233
       0000
       0000
                                 none
       0000
                234
235
236
       0000
                         IMPLICIT OUTPUTS:
       0000
       0000
                                 Messages to SYS$OUTPUT are the only output from SATSSF17.
                237
238
       0000
                                 They are of the form:
       0000
                                            XUETP-S-SATSMS, TEST MODULE SATSSF17 BEGUN ... (BEGIN MSG)
XUETP-S-SATSMS, TEST MODULE SATSSF17 SUCCESSFUL ... (END MSG)
XUETP-E-SATSMS, TEST MODULE SATSSF17 FAILED ... (END MSG)
XUETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
       0000
                239
       0000
                240
       0000
                241
                242
       0000
       0000
       0000
                244
                        COMPLETION CODES:
       0000
                245
                246
       0000
                                 The SATSSF17 routine terminates with a SEXIT to the
       0000
                                 operating system with a status code defined by UETP$_SATSMS.
       0000
                248
       0000
                249012354567
25555557
                        SIDE EFFECTS:
       0000
0000
0000
                                 none
       ŎŎŎŎ
       0000
       0000
       0000
                                                                              ; let the test begin
                                 TEST_START SATSSF17
```

G 16

```
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 INPUT TESTS 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1
                                                                                                                                                8 (2)
                                                                                                                                         Page
                                      263
263
2645
26667
26667
277
277
277
277
277
277
                                                      .SBTTL INPUT TESTS
                              0056
                              0056
                              0056
                                           : $INPUT tests
                              0056
                              0056
                                             test for an EFN of -1
                              0056
                              0056
018B'CF
                                                     MOVAL WAINPUT, WASERV NAME SCREMBX_S LOGNAM=WAMBNAM,-
            0031'CF
                              0056
                         DE
                                                                                                       : set the service name
                              005D
                              005D
                                                                    CHAN=W^MBCHAN
                                                                                                       ; get a legal channel number
                              0074
                                                                CHAN = W^MBCHAN, -
                                                     SINPUT
                              0074
                                                               BUFFER= W^MBNAM . -
                              0074
                                                               LENGTH= #0.-
                              0074
                                                                 EFN = #-1
                                                                                                       ; try EFN = -1
                              0097
                                                     FAIL_CHECK SS$_ILLEFC
                                                                                                       : check failure
                                                               PUSHL #SS$ ILLEFC
CALLS #1,WREG_CHECK
       000000EC 8F
                              0097
      095D'CF
                 01
                        FB
                              009D
                                      278 :+
279 :
                              00A2
                              00A2
                                       280; test for an EFN of 500
                              00A2
                                      281 :
                              00A2
                              SA00
                                      282 :-
283
                              00A2
                                                     NEXT_TEST
                              00A2
                              00A2
                                           STP1:
                             00A2
      0004'CF
                  01
                        D0
                                                                         #1, W^CURRENT_TC
                                                               MOVL
                   00
                        DD
                              00A7
                                                                         #0
                                                               PUSHL
                                                                CALLS #1, WAREG SAVE CHAN = WAMBCHAN,-
      0953'CF
                  01
                        FB
                              00A9
                                                               CALLS
                              00AE
                                      284
                                                     $INPUT
                                      285
                              00AE
                                                               BUFFER= W^MBNAM,-
                              00AE
                                      286
                                                               LENGTH= #0.-
                              00AE
                                      287
                                                                  EFN= #500
                                                                                                       ; try illegal EFN = 500
                                                     FAIL_CHECK SSS_ILLEFC
                              00D1
                                      288
                                                                                                       : check failure
      000000EC 8F
095D'CF 01
                        DD
                              00D1
                                                               PUSHL WSS$_ILLEFC
                                                                       #1,WREG_CHECK
                        FB
                              00D7
                                                               CALLS
                                      289 :+
290 :
291 : 1
292 :
293 :-
294
                              00DC
                              00DC
                                          ; test for an EFN of 123 without an associated cluster
                              00DC
                              00DC
                              00DC
                              OODC
                                                     NEXT_TEST
                              00DC
                              00DC
                                           STP2:
      0004'CF
                  02
                              QODC
                        D0
                                                               MOVL
                                                                         #2,W^CURRENT_TC
                   ŎŌ
                              00E1
                                                                        #Ō
                         DD
                                                               PUSHL
                             00E3
                                                                CALLS #1, WAREG_SAVE
CHAN = WAMBCHAN,-
      0953'CF
                  01
                        FB
                                                               CALLS
                                      295
296
297
                                                     $INPUT
                              ŎŎĒ 8
                                                               BUFFER= W^MBNAM . -
                              00E8
                                                               LENGTH= #0.-
                                      298
                              00E8
                                                                 EFN = #123
                                                                                                       ; try EFN =123
                                                     FAIL_CHECK SS UNASEFC
PUSHL #SS UNASEFC
                              010B
                                                                                                       : check failure
       00000234 8F
                              010B
                                                                        #SS$ UNASEFC
                                                                        #1,WREG_CHECK
      0950 CF 01
                              0111
                        FB
                                                               CALLS
                                      300 :+
301 :+
                              Ŏ116
                              0116
                              0116
                                      302 ; test unaccessable IOSB parameter = page 0 access
```

```
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 INPUT TESTS 5-SEP-1984 04:22:23
                                                                                                                                         Page
                                                                                                   CUETP. SRCJSATSSF17. MAR: 1
                                                                                                                                                 (2)
                         0116
                                  303
304
305
                        Ŏ116
                                                 NEXT_TEST
                         0116
                         0116
                                       STP3:
0004'CF
                         0116
                   DO
                                                            MOVL
                                                                      #3,W^CURRENT_TC
             ÕÕ
                   ĎĎ
                         011B
                                                            PUSHL
                                                                      #0
                                                             ALLS #1, WAREG_SAVE
CHAN = WAMBCHAN, -
IOSB = WAPRVHND_SXV40, -
0953'CF
             ŎĬ
                   FB
                         011D
                                                            CALLS
                         0122
0122
0122
0122
0143
                                  306
307
308
                                                 $INPUT
                                                            LENGTH= #0,-
                                                 BUFFER= W^MBNAM
FAIL_CHECK SS$_ACCVIO
PUSHL #$S$_AC
                                  309
                                                                                                      ; try page 0 access
; check failure
                         0143
                                                                     #SS$_ACCVIO
#1,WREG_CHECK
                   DD
095D'CF
             ŎĬ
                   FB
                         0145
                                                            CALLS
                                  311 +
312 :
313 : test unaccessable IOSB parameter = read-only PSECT
                                  311
                         014A
                         014A
                         014A
                                  314
315 :-
                         014A
                         014A
                         014A
                                  316
                                                 NEXT_TEST
                         014A
                         014A
                                       STP4:
0004'CF
             04
                   DO
                         014A
                                                                      #4,W^CURRENT_TC
                                                            MOVL
             Ō0
                   DD
                         014F
                                                            PUSHL
                                                                      #0
                                                             ALLS #1, WAREG SAVE CHAN = WAMBCHAN,
0953'CF
             01
                   FB
                         0151
                                                            CALLS
                         0156
                                                 SINPUT
                                                             IOSB = WAPRVHND_SXV41,-
                                  318
                         0156
                         0156
                                  319
                                                            LENGTH= #0.-
                         0156
                                  320
                                                            BUFFER= WAMBNAM
                                                                                                      ; try read-only PSECT
; check failure
                                                 FAIL_CHECK SS$_ACCVIO
PUSHL #SS$_ACCVIO
                         0177
                         0177
                   DD
095D'CF
                         0179
             01
                   FB
                                                            CALLS
                                                                      W1, WREG CHECK
                                  322
323
324
325
326
327
                                      test unaccessable IOSB parameter = noaccess protection
                        NEXT_TEST
                                       STP5:
0004'CF
             05
                   DÛ
                                                            MOVL
                                                                      #5,W^CURRENT_TC
             00
                   DD
                                                                      #0
                                                            PUSHL
                                                             CHAN = WAMBCHAN,-
0953'CF
             01
                   FB
                        0185
                                                            CALLS
                                  328
329
330
331
332
                        018A
                                                 $INPUT
                                                             IOSB = W^PRVHND_SXV42,-
                         018A
                        018A
                                                            LENGTH= #0,-
                                                            BUFFER= WAMBNAM
                         018A
                                                                                                      ; try noaccess BUFFER param.
                                                 FAIL_CHECK SS$_ACCVIO
                         01AB
                                                                                                      : check failure
                                                            PUSHL
                   DD
                        01AB
                                                                    - WSS$_ACCVIO
095D'CF
                   FB
                        01AD
01B2
01B2
             ÕĬ
                                                                      #1, WREG CHECK
                                                            CALLS
                                 333 :+
334 :
335 : test non-existent channel number
336 :
337 :-
                         01B2
01B2
                         01B2
01B2
                                                 NEXT_TEST
```

		- SA INPU	T TESTS	M SERVICE	TESTS	(FA	K 10 VILIN	6 G S.	16-SEP-1984 5-SEP-1984	01:41:08 04:22:23	VAX/VMS Macro VO4-00 [UETP.SRC]SATSSF17.MAR;1	Page	10 (2)
0004'CF 0953'CF	06 00 01	DO DD FB	0182 0182 0182 0187 0189 0186 01CA	STP6: 339 340 341 342 343	SDAS SINP	UT	MOVL PUSHI CALL S CHAI	L S An = N =	#6,W^CURRENT #0 #1,W^REG_SAV : W^MBCHAN W^MBCHAN,-	_	; deassign the channel		
095D'CF	24 01	DD FB	01E9 01EB 01F0 01F0	344 ;+ 345 :	FAIL t illeg	_CHE	CK S PUSHI CALL	S <b>5_N</b> L S	W^MBNAM,- #0 IOPRIV #SS\$_NOPRIV #1,W*REG_CHE	CK	; try illegal channel ; check the failure		
0004°CF 0953°CF 018F	07 00 01 'CF	D0 DD FB D4	01F0 01F0 01F0 01F5 01F7 01FC	346 ; tes 347 ; 348 ;- 349 STP7: 350 351 352 353	NEXT	UT	MOVL PUSHI CALL WAMBI CHAI BUFFI	L S Chan N = ER=	W^MBCHAN,- W^MBNAM,-	_	; make an illegal channel n		
0000013C 095D'CF	8F 01	DD FB	021F 021F 021F 0225	37.3 354	FAIL	_CHE	LENG CK S PUSH CALL	S <b>\$_</b> I L	VCHAN WSS\$_IVCHAN W1,WREG_CHE	CK	; try illegal channel numbe ; check failure	r	

EFN = #123

: try EFN =123

```
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 0UTPUT TESTS 5-SEP-1984 04:22:23
                                                                                                                            Page 12 (2)
                                                                                           [UETP.SRC]SATSSF17.MAR:1
                               394
                                             FAIL_CHECK SS$_UNASEFC
                                                                                            : check failure
 00000234 8F
095D'CF 01
                                                      PUSHL
CALLS
                                                                #SS$_UNASEFC
#1,WREG_CHECK
0950'CF
                  FB
                               395 ;+
                               396
397
398
                                   ;
; test unaccessable IOSB parameter = page 0 access
                               399
                               400
                                             NEXT_TEST
                                   STP11:
0004'CF
                 DO
                                                      MOVL
                                                                #11,W^CURRENT_TC
            ŎŌ
                 DĎ
                                                      PUSHL
                                                                #0
0953'CF
                                                        ILLS #1,WAREG SAVE
CHAN = WAMBCHAR,-
            01
                 FB
                                                      CALLS
                                             SOUTPUT
                                                         IOSB = WAPRVHND_SXV40,-
                               402
                                                       LENGTH = #0.-
                               404
                                                      BUFFER = W^MBNAM
                                                                                            ; try page 0 access
; check failure
                               405
                                             FAIL_CHECK SSS_ACCVIO
                                                      PUSHL
                                                                #SS$ ACCVIO
            ŎĬ
                                                                #1,WREG_CHECK
095D'CF
                 FB
                                                      CALLS
                              406 :+
                               408
                                   ; test unaccessable IOSB parameter = read-only PSECT
                               409 ;
                               410
                               411
                                             NEXT_TEST
                                   STP12:
0004 ° CF
            00
                 D0
                                                      MOVL
                                                                #12,W^CURRENT_TC
                 DD
FB
                                                      PUSHL
            00
                                                                #0
0953'CF
                                                        ALLS #1, WAREG SAVE
CHAN = WAMBCHAN, -
            01
                                                      CALLS
                              412
                                             SOUTPUT
                                                         IOSB = W^PRVHND_SXV41,-
                               414
                                                       LENGTH = #0,-
                              415
                                                      BUFFER = W^MBNAM
                                                                                            ; try read-only PSECT
                      0361
                                             FAIL_CHECK SS$_ACCVIO
                               416
                                                                                            : check failure
                 DD
                      0361
                                                      PUSHL
                                                               #SS$_ACCVIO
            ÕĬ
                 FB
095D'(f
                      0363
                                                      CALLS
                                                               #1,WREG_CHECK
                              417 ;+
418 ;
419 ; test unaccessable IOSB parameter = noaccess protection
                      0368
                      0368
                      0368
                              420
421
422
                      0368
                                             NEXT_TEST
                      0368
                      0368
                                   STP13:
0004 °CF
                      0368
            00
                 D0
                                                      MOVL
                                                                #13,W^CURRENT_TC
                 DĎ
            00
                      036D
                                                      PUSHL
                                                                #0
                                                        ILLS #1, WAREG SAVE
CHAN = WAMBCHAN,-
                 FB
0953'CF
            01
                      036F
                                                      CALLS
                                             SOUTPUT
                                                         IOSB = WAPRVHND_SXV42,-
                                                       LENGTH = #0.-
                                                      BUFFER = WAMBNAM
                                                                                            ; try noaccess BUffER param.
                                             FAIL_CHECK SSS_ACCVIO
                                                                                            : check failure
                                                      PUSHL
                      0397
                                                               #SS$ ACCVID
J95D'CF
            ÕĬ
                      0399
                                                                W1, WREG_CHECK
                 FB
                                                      CALLS
```

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VAX/VMS Macro V04-00

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- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 010 TESTS 5-SEP-1984 04:22:23
SATSSF17
                                                                                                                             VAX/VMS Macro V04-00
                                                                                                                                                                        14 (3)
                                                                                                                                                                  Page
V04-000
                                          QIO TESTS
                                                                                                                             [UETP.SRC]SATSSF17.MAR:1
                                                         451 .SBTTL QIO TESTS
452 .+
453 .
454 : $QIO tests
455 : test for an EFN
456 .
457 .-
458 ...
460 ...
461 ...
462 ...
463 ...
464 ...
465 ...
466 ...
467 ...
FAIL_CHEC
                                                 041A
                                                 041A
                                                 041A
                                                              $QIO tests
; test for an EFN of O
                                                 041A
                018B'CF
                              003E'CF
                                           DE
                                                                                    W^QIO, W^SERV_NAME
                                                                                                                    ; set service name
                                                0421
                                                                          SCREMBX_S LOGNAM=W^MBNAM.-
                                                                                         CHAN=W^MBCHAN
                                                                                                                      get a legal channel number
                                                                                    W^MBCHAN, W^QIOP+QIO$_CHAN; set the channel number
                00B5'CF
                              018F 'CF
                                           3C
                                                0438
                                                043F
                                                                                    CHAN=W^MBCHAN.-
                                                 043F
                                                                                    FUNC=#10$ READVBLK,-
P1=W^MBNAM,-
                                                043F
                                                043F
                                                                                      P2=#0,-
                                                043F
                                                                                     EFN=#-1
                                                                                                                    ; try EFN=0
; check failure
                                                                         FAIL_CHECK SS$_ILLEFC
PUSHL #SS$_ILLEFC
CALLS #1,W*REG_CHECK
                                                0462
                         000000EC 8F
                                                0462
                                                0468
                       095D'CF
                                    01
                                           FB
                                                046D
                                                         468
                                                                         $QIO G WAQIOP
                                                                                                                    ; try G
; check failure
                                                0476
                                                         469
                                                                         FAIL_CHECK SS$_ILLEFC
                        000000EC 8F
                                                                                    PUSHL
                                           DD
                                                0476
                                                                                              #SS$_ILLEFC
#1,W*REG_CHECK
                       0950 CF
                                    01
                                           FB
                                                047C
                                                                                    CALLS
                                                         470 ;+
                                                0481
                                                         471
                                                0481
                                                         472
473
474
475
                                                0481
                                                               ; test for an EFN of 500
                                                0481
                                                0481
                                                0481
                                                                         NEXT_TEST
                                                0481
                                                0481
                                                               STP16:
                       0004 CF
                                    10
                                           D0
                                                0481
                                                                                    MOVL
                                                                                              #16,W^CURRENT_TC
                                    00
                                           DD
                                                0486
                                                                                    PUSHL
                                                                                              #0
                       0953'CF
                                    01
                                           FB
                                                0488
                                                                                              #1.W^REG_SAVE
                                                                                    CALLS
                                                                                   CHAN=W^MBCHAN,-
FUNC=#IO$_READVBLK,-
                                                         476
477
                                                048D
                                                                         $Q10_S
                                                048D
                                                048D
                                                         478
                                                                                      P1=W^MBNAM.-
                                                048D
                                                         479
                                                                                      P2=#0.-
                                                048D
                                                         480
                                                                                     EFN=#500
                                                                                                                   ; try EFN=500
                                                04B0
                                                                         FAIL_CHECK_SS$_ILLEFC
                                                         481
                                                                                                                   : check failure
                                                                                   PUSHL WSS ILLEFC
CALLS W1, WREG CHECK
W500, WAGIOP+QIOS EFN
                        000000EC 8F
                                                0480
                                           DD
                       095D CF
                                    01
                                           FB.
                                                04B6
           00B1'CF
                                                         482
483
                        000001F4 8F
                                           DÖ
                                                04BB
                                                                                                                     set illegal EFN
                                                                         $QIO_G WAQIOP
FAIL_CHECK SS$_ILLEFC
                                                0464
                                                                                                                   : try G
: check failure
                                                04CD
                                                         484
                        000000EC 8F
                                           DD
                                                04CD
                                                                                    PUSHL
                                                                                              #SS$_ILLEFC
                                                                                              #1,WREG_CHECK
                       095D'CF
                                    01
                                           FB
                                                04D3
                                                                                    CALLS
                                                         485 ;+
                                                04D8
                                                         486
                                                0408
                                                04D8
                                                         487
                                                              ; test for an EFN of 123 without an associated cluster
                                                04D8
                                                         488 ;
                                                04D8
                                                         489
                                                                         NEXT_TEST
                                                04D8
                                                         490
                                                0408
                                                              STP17:
                                                04D8
                       0004 LF
                                    11
                                           D0
                                                04D8
                                                                                    MOVL
                                                                                              #17, W^CURRENT_TC
                                    00
                                           DD
                                                04DD
                                                                                   PUSHL
                                                                                              #0
```

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SATSSF17
V04-000
                                       - SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08
                                                                                                                    VAX/VMS Macro V04-00
                                       QIO TESTS
                                                                                           5-SEP-1984 04:22:23
                                                                                                                    [UETP.SRC]SATSSF17.MAR:1
                      0953'CF
                                  01
                                        FB
                                                                                        #1,W^REG_SAVE
                                             04DF
                                                                               CALLS
                                              04E4
                                                                              CHAN=W^MBCHAN,-
                                                                     $010 $
                                              04E4
                                                                               FUNC=#10$ READVBLK,-
                                                                                 P1-WAMBNAM,-
                                              04E4
                                                                                P2=#0 -
ErN=#123
                                                      495
                                                                                                            ; try S
; check failure
                                                                    FAIL_CHECK SSS_UNASEFC
PUSHL #SSS_UNASEFC
CALLS #1, WREG_CHECK
MOVL #123, WrQIOP+QIOS_EFN
                                              0507
                       00000234 8F
                                             0507
                      095D'CF
                                             050D
                                         FB
           COB1 CF
                       0000007B 3F
                                        DŌ
                                                      497
                                             0512
                                                                                                              set illegal EFN
                                              051B
                                                      498
                                                                     $QIO_G W^QIOP
                                                                                                              try G
check failure
                                                                     FAIL_CHECK SS$_UNASEFC
PUSHL #SS$_U
                                                      499
                                              0524
                       U0000234 8F
                                             0524
                                                                                       #SS$_UNASEFC
#1,WREG_CHECK
                      095D'CF
                                  01
                                        FB
                                             052A
                                                                               CALLS
                                             052F
                            00B1'CF
                                        D4
                                                                     CLRL
                                                                               W^QIOP+QIO$_EFN
                                                                                                            ; clean up illegal EFN
                                                      501 ;+
                                              0533
                                                      502
503
                                              0533
                                                           ; test unaccessable IOSB = page 0 access
                                                      504:
                                                      505 :-
                                              0533
                                              0533
                                                      506
                                                                     NEX1_TEST
                                             0533
                                             0533
                                                           STP18:
                      0004'CF
                                             0533
                                  12
                                        D0
                                                                               MOVL
                                                                                         #18,W^CURRENT_TC
                                  00
                                             0538
                                        DD
                                                                               PUSHL
                                                                                        #0
                                  ŎĬ
                      0953'CF
                                        FB
                                             053A
                                                                                        #1,WAREG_SAVE
                                                                               CALLS
                                                                              CHAN=W^MBCHAN,
                                             053F
                                                                     $010_$
                                             053F
                                                      508
                                                                               FUNC=#IO$_READVBLK,-
                                             053F
                                                                                 P1=W^MBNAM,-
                                                      509
                                             053F
                                                      510
                                                                                 P2=#0,-
                                             053F
                                                                               IOSB=W^PRVHND_SXV40
                                                      511
                                                                                                            ; try S
; check failure
                                             0560
                                                                    FAIL_CHECK SS$_ACCVIO
                                                      512
                                                                             PUSHL #55% ALLVIO
CALLS #1,WREG CHECK
W^PRVHND_SXV40,WRQIOP+QIO$_IOSB; set illegal address
W^QIOP; try_G
ECK_CC$_ACCVIO; check the failure
                                             0360
                                        DD
                                                                               PUSHL
                                                                                       " #SS$_ACCVIO
                                             0562
0567
                      095D'CF
                                        FB
                                  01
               OOBD'CF
                            0001'CF
                                        DE
                                                      513
                                                                     MOVAL
                                                                     $QIO G WAQIOP
                                             056E
                                                      514
                                             0577
                                                      515
                                                                     FAIL_CHECK SSS_ACCVIO
PUSHL #SSS_A
                                             0577
                      095D'CF
                                  ŎĬ
                                        FB
                                             0579
                                                                                        W1, WREG_CHECK
                                                                               CALLS
                                                      516 :+
517 :+
                                             057E
                                             057E
                                             057E
                                                      518
                                                           ; test unaccessable IOSB = read-only PSECT
                                                      519:
                                             057E
                                                      520
521
                                             057E
                                             057E
                                                                     NEXT_TEST
                                             057E
                                             057E
                                                           STP19:
                      0004 CF
                                             057E
                                                                               MOVL
                                                                                        #19,W^CURRENT_TC
                                  00
                                        DD
                                             0583
                                                                              PUSHL
                                                                                        #1,WAREG_SAVE
                      0953'CF
                                  01
                                        FB
                                             0585
                                                                               CALLS
                                                                              CHAN=W^MBCHAN,
                                             058A
                                                                     $010_S
                                             058A
                                                                               FUNC=#10$_READVBLK,-
                                             058A
                                                                                 P1=W^MBNAM.-
                                             058A
                                                                                 P2=#0.-
                                                                               IOSB=W*PRVHND_SXV41
                                             058A
                                                                                                            ; try S
; check failure
                                                                     FAIL_CHECK SS$_ACCVIO
                                             05AB
                                             05AB
                                  00
                                        DD
                                                                               PUSHL WSS$_ACCVIO
```

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Page

Page 16 (3)

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SATSSF17 V04-000		- SA	NTS SYSTE TESTS	EM SERVICE TEST	S (FAILING	S S. 16-SEP-1984 5-SEP-1984	01:41:08 04:22:23	VAX/VMS Macro V04-00 [UETP.SRC]SATSSF17.MAR;1	Page	17 (3)
	00 0953'CF 01 018F'CF	DD FB D4	0650 0657 0658 0658 0658 0658 067A 0685 06885 06892 0698	563 CL 564 \$Q 565 566 567 568 FA	FUNC:	#0 #1,W^REG_SAVE CHAN =W^MBCHAN, - =#10\$ READVBLK, - =W^MBNAM, - =#0	; set	illegal channel number		
	0000013C 8F 095D'CF 01 00B5'CF	DD FB D4	067A 067A 0680 0685 0689		II CHECK SS	S\$_IVCHAN _ #SS\$_IVCHAN S #1.W*REG_CHEC	K ; set	k failure illegal channel number G R failure		
	0000013C 8F 095D'CF 01	DD FB	0692 0698	)/I FA	AIL_CHECK SS PUSHI CALLS	L #SS\$_IVCHAN	; chec K	ck failure		

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SATSSF17
V04-000
                                      - SATS SYSTEM SERVICE TESTS
                                                                       (FAILING S. 16-SEP-1984 01:41:08
                                                                                                                                                        18
(3)
                                                                                                                VAX/VMS Macro V04-00
                                                                                                                                                 Page
                                      QIOW TESTS
                                                                                       5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR:1
                                            069D
069D
                                                    573 .SBTTL QIOW TESTS 574 :+ 575 :
                                            069D
                                                    576
577
                                                        ; $QIOW tests
                                            069D
                                            069D
                                                        : test for an EFN of O
                                                    578
579
580
                                            069D
                                            069D
                                            069D
                                                                  NEXT_TEST
                                            069D
                                            069D
                                                         STP23:
                     0004'CF
                                       DO
                                            069D
                                                                           MOVL
                                                                                     #23,W^CURRENT_TC
                                 00
                                       DD
                                            06A2
                                                                           PUSHL
                                                                                     #Õ
                     0953'CF
                                 01
                                       FB
                                           06A4
                                                                                     #1,WAREG_SAVE
                                                                           CALLS
                                                                  MOVAL WAGTOW, WASERV NAME SCREMBX_S LOGNAM=WAMBNAM,-
                           0042'LF
               018B'CF
                                       DE
                                           06A9
                                                    581
                                                                                                        ; set service name
                                                    582
583
                                            06B0
                                            06B0
                                                                                CHAN=W^MBCHAN
                                                                                                          get a legal channel number
                                                                           W^MBCHAN, W^QIOWP+QIOW$_CHAN; set the channel number
               00E9'CF
                           018F'CF
                                       3C
                                            0607
                                                    584
                                                                  MOVZWL
                                                                  SQIOW_S CHAN=W^MBCHAN,-
                                            06CE
                                                    585
                                            06CE
                                                    586
                                                                           FUNC=#IOS_READVBLK,-
                                                                              P1=W^MBNAM,-
                                            06CE
                                                    587
                                                                             P2=#0,-
EFN=#-1
                                            06CE
                                                    588
                                            06CF
                                                    589
                                                                                                        ; try EFN=0
                                                                  FAIL_CHECK SS$_ILLEFC
                                            06F1
                                                    590
                                                                                                        : check failure
                                                                           PUSHL #55$ ILLEFC
CALLS #1,WREG_CHECK
                      000000EC 8F
                                       DD
                                            06F1
                     095D'CF
                                 01
                                       FB
                                           06F7
                                            06FC
                                                                  $QIOW_G W^QIOWP
                                                                                                        ; try G
; check failure
                                                                  FAIL THECK SS$ ILLEFC
                                            0705
                                                    592
                                                                           PUSHL
                                                                                    #SS$_ILLEFC
#1,W*REG_CHECK
                      0000GOEC 8F
                                            0705
                                       DD
                     095D CF
                                 01
                                       FB
                                            070B
                                                                            CALLS
                                                    593 ;+
                                            0710
                                            0710
                                                    594
                                                        ; test for an EFN of 500
                                            0710
                                                    595
                                                    596:
                                            0710
                                            0710
                                                    597 :-
                                            0710
                                                    598
                                                                  NEXT_TEST
                                            0710
                                            0710
                                                         STP24:
                     0004'CF
                                            0710
                                 18
                                       D0
                                                                                     #24,W^CURRENT_TC
                                                                           MOVL
                                       DD
                                            0715
                                                                                     #Ō
                                 00
                                                                           PUSHL
                                                                                     W1, W^REG_SAVE
                     0953'CF
                                 01
                                       FB
                                            0717
                                                                           CALLS
                                            071C
                                                                            CHAN=W^MBCHAN,-
                                                    599
                                                                  $QIOW_S
                                                                           FUNC=#10$_READVBLK,-
                                            071C
                                                    600
                                            071C
                                                    601
                                                                              P1=W^MBNAM,-
                                                                              P2=#0.-
                                                    602
                                            071C
                                            071C
                                                                             EFN=#500
                                                                                                        ; try EFN=500
                                           073F
073F
                                                                  FAIL_CHECK SS$_ILLEFC
                                                                                                        : check failure
                                                                           PUSHL #55$ ILLEFC
CALLS #1.WREG CHECK
#500,WAQIOWP+QIOWS_EFN
                      000000EC 8F
                                       DD
                     095D'CF
                                 01
                                       FB
                                            0745
                      000001F4 8F
          00E5'CF
                                       DÖ
                                            074A
                                                    605
                                                                                                        ; set illegal EFN
                                                                  MOVL
                                            0753
                                                    606
                                                                  SQIOW_G WAQIOWP
                                                                                                        : try G
: check failure
                                                                  FAIL_CHECK SSS_ILLEFC
                                            075C
                                                    607
                                            075C
                                                                                    #SS$_ILLEFC
#1,W*REG_CHECK
                      000000EC 8F
                                       DD
                                                                            PUSHL
                                            0762
0767
                     095D'CF
                                 01
                                       F8
                                                                            CALLS
                                                    608 :+
                                                    609
                                            0767
                                            0767
                                                    610
                                                           test for an EFN of 123 without an associated cluster
                                            0767
```

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- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 Page 19 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1 (3) 0767 612;-
0767 613 NEXT TEST
```

				0767 612 0767 613 0767 0767 0767	;-	NEXT_TEST
	000/ + CE	10	00	0767 0767	STP25:	MOVI MOS HACHDRENT TO
	0004 · CF 0953 • CF	19 00 01	DO DD FB	0760		MOVL #25,W^CURRENT_TC PUSHL #0 CALLS #1 HAREC SAVE
	0933 Cr	O I	7 6	0773 614 0773 615		CALLS #1,WAREG_SAVE \$QIOW_S CHAN=WAMBCHAN,- FUNC-#IOS READVRLK -
				0773 616 0773 617		FUNC=#IO\$ READVBLK,- P1=W^MBRAM,- P2=#0 -
				076E 0773 614 0773 615 0773 616 0773 617 0773 618		P2=#0,- EFN=#123 ; try S FAIL_CHECK SS\$_UNASEFC ; check failure
	00000234 095D'CF	01	DD FB	0796 0790		PUSHL #SS\$ UNASEFC CALLS #1,WREG_CHECK
00E5'CF	0000007B	8F	DO	07A1 620 07AA 621		MOVL #125,W^QIOWP+QIOW\$_EFN ; set illegal EFN \$QIOW G W^QIOWP : try G
	00000234		DD	07B3 622 07B3		FAIL_CHECK SS\$_UNASEFC ; check failure PUSHL #SS\$_UNASEFC
	095D'CF 00E5	01 CF	FB D4	07B9 07BE 623		CALLS #1,WRREG_CHECK CLRL WAQIOWP+QIOW\$_EFN ; clean up illegal EFN
				0702 625	; *	wassesship IOCA a sees O seeses
				078É 623 07C2 624 07C2 625 07C2 626 07C2 627 07C2 628 07C2 629	; (est	unaccessable IOSB = page 0 access
				07C2 629	•	NEXT_TEST
	0004 ° CF	1A	DO	07C2 624 07C2 625 07C2 626 07C2 627 07C2 628 07C2 629 07C2 07C2 07C2 07C2 07C7	STP26:	MOVL #26,W^CURRENT_TC
	0953'CF	00 01	DD FB	07C7 07C9		PUSHL #0 CALLS #1,W^REG_SAVE
				07CE 630 07CE 631 07CE 632 07CE 633 07CE 634 07EF 635		\$QIOW_S CHAN=W^MBCHAN,- FUNC=#IO\$_READVBLK,-
				07CE 632 07CE 633		P1=W^MBNAM,- P2=#0,- IOSB-WARRYUND SMY/O
		0 C	DD	07CE 634 07EF 635 07EF		IOSB=W^PRVHND_SXV40 ; try S FAIL_CHECK SS\$_ACCVIO ; check failure PUSHL #SS\$_ACCVIO
00F1	095D'CF	01	FB DE	07F1		CALLS M1 WRDEG CHECK
•••		•	•	07FD 637 0806 638		MOVAL WAPRVHND_SXV40,W#QIOWP+QIOW\$_IOSB ; set illegal address \$QIOW_G WAQIOWP ; try G FAIL_CHECK_SS\$_ACCVIO ; check the failure
	095D'CF	0C 01	DD FB	0806 0808		PUSHL #SS\$ ACCVIO CALLS #1,WREG_CHECK
				080D 639 080D 640 080D 641 080D 642	<b>;</b> +	
				080D 639 080D 640 080D 641 080D 642 080D 643 080D 644	; test	unaccessable IOSB = read-only PSECT
				080D 643 080D 644 080D	;-	NEXT_TEST
	0004°CF	1 <b>A</b>	חמ	080D	STP27:	MOVL #27,W^CURRENT_TC
	09531CF	1B 00 01	DO DD FB	080D 0812 0814		PUSHL #0 CALLS #1,WAREG_SAVE
	<del>-</del> -	<b>.</b> ,	. •	Ŏ819 645		\$QIOW_S CHAN=WAMBCHAN,-

```
- SATS SYSTEM SERVICE TESTS
                                                           (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1
                                                                                                                                                20
(3)
                                                                                                                                         Page
                       QIOW TESTS
                              0819
                                      646
                                                               FUNC=#IO$ READVBLK,-
                              0819
                                                                  P1=WAMBRAM.-
                              0819
                                      648
                                                                  P2=#0.-
                                                               IOSB=W^PRVHND_SXV41
                              0819
                                      649
                                                                                             : try S
: check failure
                                                     FAIL_CHECK SS$_ACCVIO ; check failure
PUSHL #SS$_ACCVIO
CALLS #1,W*REG_CHECK
MOVAL W^PRVHND_SXV41,W*QIOWP+QIOW$_IOSB ; set IOSB adr
                              083A
                                      650
                              083A
                        DD
      095D'CF
                  01
                        FB
                              083C
            00531CF
                        DE
00F1'CF
                             0841
                                      652
                              0848
                                                     SQIOW G WAQIOWP
                                                                                             ; trÿ G
; check failure
                                                     FAIL_CHECK SS$_ACCVIO
PUSHL #SS$_ACCVIO
CALLS #1,WREG_CHECK
                              0851
                        DD
                              0851
                  ÕĨ
      095D'CF
                        FB
                              0853
                                      654 ;+
                              0858
                                      655
                              0858
                              0858
                                      656
                                             test noaccess protection in IOSB
                                      657
                              0858
                              0858
                                      658
                              0858
                                      659
                                                     NEXT_TEST
                              0858
                              0858
                                           STP28:
      0004 'CF
                        D0
                              0858
                                                                         #28,W^CURRENT_TC
                                                               MOVL
                   00
                        DD
                              085D
                                                               PUSHL
                                                                         #0
                                                                         #1,WAREG_SAVE
      0953'CF
                  01
                        FB
                              085F
                                                               CALLS
                                                                CHAN=W^MBCHAN,-
                              0864
                                                     $QIOW_S
                                      660
                                                               FUNC=#10$ READVBLK,-
                              0864
                                      661
                                      662
                                                                  P1=W^MBNAM.-
                              0864
                              0864
                                                                  P2=#0.-
                                                               10SB=WAPRVHND_SXV42
                              0864
                                      664
                                                                                             ; try S
; check failure
                              0885
                                                     FAIL_CHECK SS$_ACCVIO
                                      665
                                                                        #SS$_ACCVIO
#1,WREG_CHECK
                              0885
                                                               PUSHL
      095D'CF
                  01
                        FB
                              0887
                                                               CALLS
                              0880
                                      666 :+
                              0880
                              0880
                                           ; test non-existent channel number
                                      668
                                      669 :
                              0880
                                      670 :-
                              0880
                                      671
                              0880
                                                     NEXT_TEST
                              0880
                              088C
                                           STP29:
      0004 °CF
                  1 D
                             0880
                                                                         #29,W^CURRENT_TC
                        DO
                                                               MOVL
                  00
                                                                         #0
                        DD
                             0891
                                                               PUSHL
      0953'CF
                  01
                        FB
                              0893
                                                                         #1, WAREG_SAVE
                                                               CALLS
                                                     $DASSGN_S CHAN=W^MBCHAN
                                      672
673
                              0898
                                                                                             ; release the channel
                                                                CHAN=W^MBCHAN,-
                              08A4
                                                     $QIOW_S
                              08A4
                                      674
                                                               FUNC=#10$ READVBLK .-
                              08A4
                                      675
                                                                  P1=W^MBNAM, -
                              08A4
                                      676
                                                                  P2=#0
                                                     FAIL_CHECK SS$ NOPRIV
PUSHL #SS$ NOPRIV
CALLS #1,WREG_CHECK
                              0803
                                                                                             : check failure
                  24
01
                              0803
                         DD
      095D'CF
                        FB
                              0805
                                                     SQIOW_G WAQIOWP
                              08CA
                                                                                             ; try G
; check failure
                                                     FAIL THECK SSS_NUPRIV
PUSHL #SSS_NOPRIV
                                      679
                              0803
                   24
01
                              08D3
                         DD
                                                                         W1.WREG_CHECK
      095D'CF
                        FB
                              08D5
                                                               CALLS
                                      680 :+
                              08DA
                                      681
                              AD80
                              08DA
                                      682 ; test illegal channel number
```

40

41

58

7

4

VC

54

```
SATSSF17
V04-000
                                    - SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 REG_SAVE 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1
                                                                                                                                                  22
(3)
                                                                                                                                           Page
                                                  697 .SBTTL REG_SAVE
                                                  698
699
                                                      : FUNCTIONAL DESCRIPTION:
                                                               Subroutine to save R2-R11 in the register save location.
                                                  702
703
                                                        CALLING SEQUENCE:
                                                               PUSHL #0
                                                                                           ; save a dummy parameter
                                                  704
                                                               CALLS #1, WAREG_SAVE
                                                                                          : save R2-R11
                                                  705
                                                  706
707
                                                        INPUT PARAMETERS:
                                          0953
                                                               NONE
                                                  708
709
                                          0953
                                                        OUTPUT PARAMETERS:
                                                  710
711
                                          0953
                                                               NONE
                                          0953
                                                  712
                                          0953
                                          0953
                                          0953
                                                  714 REG_SAVE:
                                                  715
716
                                   OFFC
                                          0953
                                                                . WORD
                                                                        ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                                                                        #4+10, X14(fP), WAREG_SAVE_AREA; save the registers in the program
           0008 °CF
                      14 AD
                               28
                                     28
                                          0955
                                                               MOVC3
                                     04
                                          095C
                                                  717
                                                               RET
                                          095D
                                                  718
                                                                .SBTTL REG_CHECK
                                          095D
                                                  719
                                                      FUNCTIONAL DESCRIPTION:
                                          095D
                                                  720
                                                  721
722
723
724
725
                                                               Subroutine to test RO & R2-R11 for proper content after a service
                                          095h
                                          0950
                                                               execution. A snapshot is taken by the REG_SAVE routine at the
                                          095D
                                                               beginning of each step and this routine is executed after the
                                          095D
                                                               services have been executed.
                                          095D
                                          095D
                                                        CALLING SEQUENCE:
                                          095D
                                                  727
                                                               PUSHL #SS$ XXXXXX
                                                                                           ; push expected RO contents
                                          095D
                                                               CALLS #1, WREG_CHECK; execute this routine
                                          095D
                                          095D
                                                        INPUT PARAMETERS:
                                          095D
                                                  731
                                                               expected RO contents on the stack
                                          095D
                                          095D
                                                        OUTPUT PARAMETERS:
                                          095D
                                                  734
                                                               possible error messages printed using $PUTMSG
                                                  735
                                          095D
                                                  736
737
                                          095D
                                          095D
                                                 738
739
                                          095D
                                                      REG_CHECK:
                                          095D
                                                                -WORD
                                                                        ^M<R2,R3,R4,R5,R6,R7,R8,P9,R10,R11>
                      50
                                     D1
13
                                          095F
                                                  740
                                                                        4(AP),R0
                                                               CMPL
                                                                                                               is this the right fail code?
                                                  741
                                          0963
                                                                        10$
                                                               BEQL
                                                                                                               br if yes
                                                  742
743
                                ŠÕ
                                          0965
                                     DD
                                                               PUSHL
                                                                        R0
                                                                                                               push received data
                                     DD
                                          0967
                                                               PUSHL
                                                                        4(AP)
                                                                                                               push expected data
                                     DF
                                          096A
                                                  744
                                                               PUSHAL
                                                                        W^EXP
                                                                                                             ; push the string variable
                    09A5'CF
                                          096E
                                                  745
                                                                        #3,WAPRINT_FAIL
                                     FB
                                                               CALLS
                                                                                                             ; print the error message
                                          0973
                                                  746
                                                      105:
                                                                        #4+10, ^X14(FP), W^REG_SAVE_AREA
                                     29
13
C3
           0008 CF
                                          0973
                                                  747
                                                               CMPC3
                      14 AD
                                                                                                            ; check all but RO
                                          097A
                                                  748
                                                               BEQL
                                                                                                             ; br if 0.K.
                     80000008
                               8F
                                          0970
                                                  749
                                                                        #REG_SAVE_AREA,R3,R6
                                                               SUBL 3
                                                                                                             ; calculate the register number
                               04
02
03
                                     Č6
81
                                                  750
751
                                                               DIVEZ
ADDB3
                                          0984
                          56
                                                                        #4,R6
                          56
51
53
              0127'CF
                                          0987
                                                                        #^X2,R6,W^REGNUM
                                                                                                             ; put it in the string
                                                               BICL2
                                                                        #3,R1
#3,R3
                                     ČA
                                          098D
                                                                                                             ; backup to register boundry
```

0990

\$FAO\_S W^CS3,W^MESSAGEL,W^MSGL,4(AP),16(AP),8(AP),4(AP),16(AP),12(AP)

; print the message

; set severity code

; set failure message address

<#UETP\$\_TEXT,#1,#MESSAGEL>

WATEST\_MOD\_FAIL, WATMD\_ADDR

WERROR, WO. W3, WAMOD\_MSG\_CODE

0A03

**0A28** 

85A0

OA3D

0A44

0A4B

DE FO

04

004C'CF

03

0044 'CF

002A'CF

02

00

20\$:

PUTMSG

MOVAL

INSV

RET

VI

03

06

06

03 03

06

06

06

06

06

06

06

06

06

06

06

SATSSF17

GIOP

QIOU

QIOWS\_ASTADR QIOWS\_ASTPRM QIOWS\_CHAN QIOWS\_EFN

00000133 R 00000059 R 00000053 R 00000085 R 000000B2 R 00000004 R 00000000 R = 00000002 000000E5 R 00000047 R = 00000003 00000065 R 00000031 R 00000031 R - 00000031 = 0000030 \*\*\*\*\*\*

000000AD R

= 00000004

= 00000014 = 00000018 = 00000008

00000042 R

= 0000000C

= 00000004

= 00000009

QIOWS\_FUNC QIOWS\_IOSB QIOWS\_NARGS QIOWS\_P1 QIOWS\_P2 QIOWS\_P3 QIOWS\_P4 QIOWS\_P5 QIOWS\_P6 QIOWS\_P6 = 00000000 = 00000010 = 00000000 = 00000010= 00000020 = 00000024 = 00000024 = 00000028 = 00000020 = 00000030 000000E1 R 000000E1 R 00000115 R 00000127 R 0000095D R 000000953 R 00000005D R 00000000 RG REG 00000127 0000095D 00000953 000000000 00000000 0000018B = 00000001 = 0000130 = 00000000 = 0000024 = 00000234 = 0000003D REGNUM REG\_CHECK
REG\_SAVE
REG\_SAVE\_AREA
RETADR SATSSF17 SERV\_NAME 0000018B R SEVERE SEVERE
SHR\$K\_SHRDEF
SHR\$ TEXT
SS\$\_ACCVIO
SS\$\_ILLEFC
SS\$\_IVCHAN
SS\$\_NOPRIV
SS\$\_UNASEFC
STEP STP0 00000030 R STP1 000000A2 R STP10 000002C0 R 000002FC R 00000332 R STP11 STP12 STP13 00000368 R STP14 0000039E R STP15 000003DE R STP16 00000481 R STP17 000004D8 R STP18 00000533 R STP19 0000057E R STP2 000000DC R STP20 000005C9 R 000005FD R STP21 STP22 0000064B R STP23 0000069D R 00000710 R STP24 STP25 00000767 R STP26 000007C2 R STP27 0000080D R STP28 00000858 STP29 0000088C R STP3 00000116 R STP30 000008DA K STP4 0000014A R STP5 0000017E R STP6 000001B2 R STP7 000001F0 R STP8 0000022A R

```
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1
SATSSF17
Symbol table
                                                                                                                                                                    (3)
STP9
                                          00000284 R
                                                             06
STSSV_INHIB_MSG
SUCCESS
                                        = 00000010
                                        = 00000001
SYSSCREMBX
SYSSDASSGN
SYSSEXIT
SYSSFAO
                                                             06
                                                       GX
                                                             06
                                                       GX
                                                             06
SYS$HIBER
                                                             06
                                          ******
                                                             06
03
SYSSQIO
                                          *****
SYS$010W
                                          ******
SYS$SETPRN
                                                             06
                                          ******
                                                             06
SYS$SETPRT
                                          ******
                                                       GX
SYS$WAKE
                                          ******
                                                       GX
TEST_MOD_BEGIN
TEST_MOD_FAIL
TEST_MOD_NAME
TEST_MOD_NAME_D
TEST_MOD_SUCC
TMD_ADDR
                                          00000019 R
                                                             0000003
000003
                                          0000002A R
                                          00000000 R
                                          00000009 R
                                          0000001F R
                                          0000004C R
TMN ADDR
                                          00000048 R
TPID
                                          00000000 R
UETPS_SATSMS
UETPS_TEXT
WARNING
                                       = 00748009
                                       = 00741133
                                       = 00000000
                                                               Psect synopsis!
PSECT name
                                         Allocation
                                                                  PSECT No.
                                                                                Attributes
-------
                                                                                                                                            NOWRT NOVEC BYTE
WRT NOVEC BYTE
NOWRT NOVEC LONG
WRT NOVEC LONG
WRT NOVEC PAGE
WRT NOVEC PAGE
    ABS
                                         00000000
                                                            0.)
                                                                  00
                                                                          0.)
                                                                                NOPIC
                                                                                                                 LCL NOSHR NOEXE NORD
SABSS
                                         00000000
                                                            0.)
                                                                  ŎĬ
                                                                          1.)
                                                                                NOPIC
                                                                                                         ABS
                                                                                          USR
                                                                                                  CON
                                                                                                                 LCL NOSHR
                                                                                                                                EXE
                                                                                                                                        RD
                                         000000FD
                                                                  Ŏ2
03
                                                                         Ž.)
                                                                                                         REL
REL
REL
RODATA
                                                         253.)
                                                                                NOPIC
                                                                                                  CON
                                                                                          USR
                                                                                                                 LCL NOSHR NOEXE
                                                                                                                                        RD
                                         00000191
                                                         401.)
RWDATA
                                                                                NOPIC
                                                                                                  CON
                                                                                                                 LCL NOSHR NOEXE
                                                                                          USR
                                                                                                                                        RD
SATS_ACCVIO_1
SATS_ACCVIO_2
SATS$F17
                                                         512.)
512.)
                                         00000200
                                                                  04
                                                                                NOPIC
                                                                          4.)
                                                                                          USR
                                                                                                  CON
                                                                                                                 LCL NOSHR NOEXE
                                                                                                                                        RD
                                         00000200
                                                                  Ŏ5
                                                                          5.)
                                                                                NOP1C
                                                                                                                 LCL NOSHR NOEXË
                                                                                          USR
                                                                                                  CON
                                                                                                         REL
                                                                                                                                        RD
                                         00000A6A
                                                       2666.)
                                                                  06 (
                                                                                NOPIC
                                                                                                  CON
                                                                          6.)
                                                                                          USR
                                                                                                         REL
                                                                                                                 LCL NOSHR
                                                                                                                                EXE
                                                                                                                                       RD
                                                                                                                                               WRT NOVEC LONG
                                                          ! Performance indicators
Phase
                                Page faults
                                                   CPU Time
                                                                      Elapsed Time
                                                                      00:00:00.54
                                                   00:00:00.08
Initialization
                                         138
                                                   00:00:00.70
                                                                      00:00:03.69
Command processing
                                                   00:00:20.48
                                                                      00:00:40.48
Pass 1
                                         488
                                                                      00:00:03.54
Symbol table sort
                                                   00:00:04.58
                                                                      00:00:09.53
Pass 2
Symbol table output
                                          17
                                                                      00:00:00.17
Psect synopsis output
                                                   00:00:00.04
                                                                      00:00:00.04
Cross-reference output
                                                   00:00:00.00
                                                                      00:00:00.00
Assembler run totals
                                                   00:00:28.19
                                                                      00:00:57.99
```

VO

The working set limit was 1950 pages. 126282 bytes (247 pages) of virtual memory were used to buffer the intermediate code. SATSSF17 - VAX-11 Macro Run Statistics

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:41:08 VAX/VMS Macro V04-00 5-SEP-1984 04:22:23 [UETP.SRC]SATSSF17.MAR;1

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There were 80 pages of symbol table space allocated to hold 1387 non-local and 4 local symbols. 828 source lines were read in Pass 1, producing 34 object records in Pass 2. 52 pages of virtual memory were used to define 48 macros.

! Macro library statistics !

Macro library name

\$255\$DUA28:[UETP.OBJ]UETP.MLB:1

\$255\$DUA28:[SYS.OBJ]LIB.MLB:1

\$255\$DUA28:[SYSLIBJSTARLET.MLB:2

TOTALS (all libraries)

Macros defined

10

2

33

45

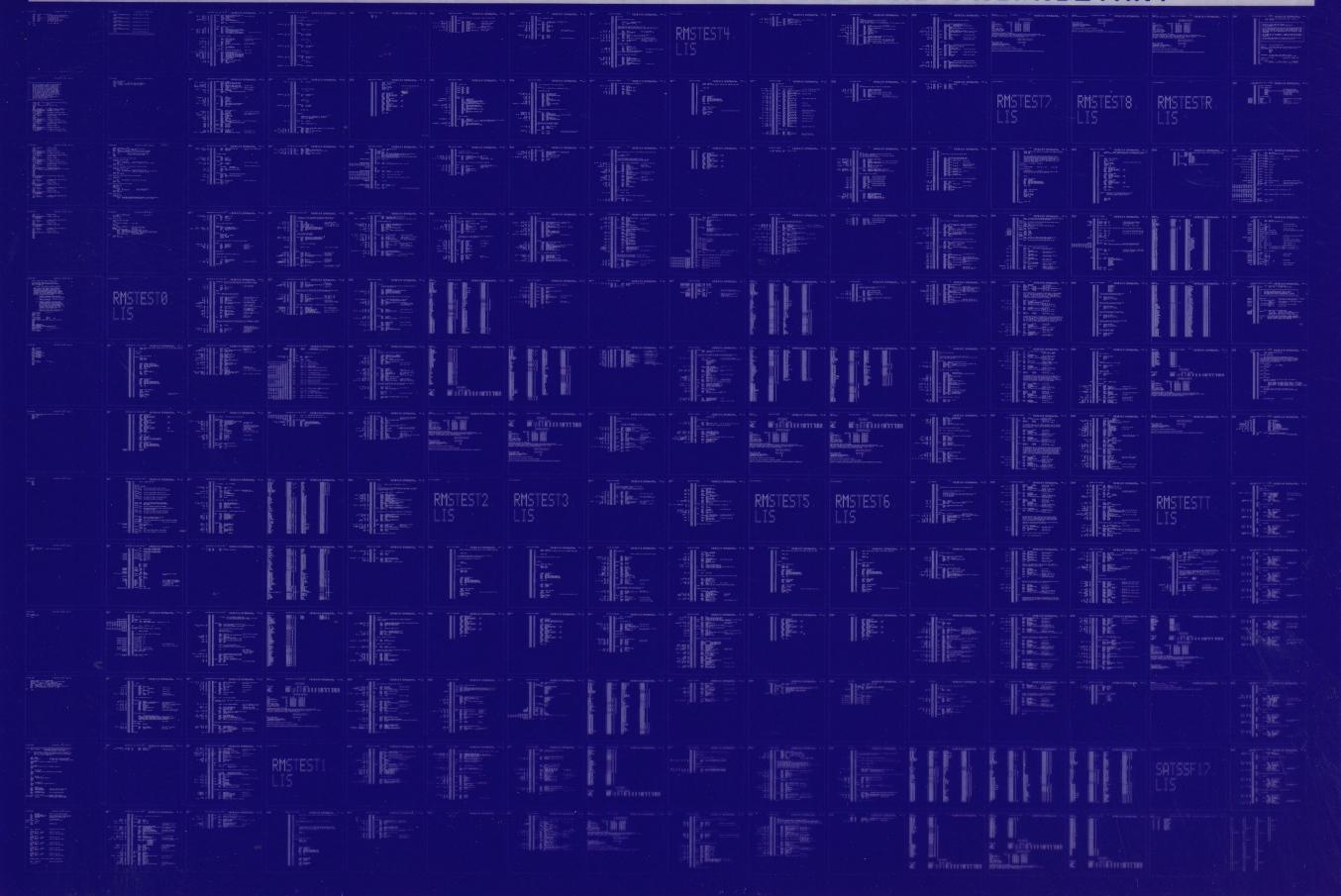
1663 GETS were required to define 45 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSF17/OBJ=OBJ\$:SATSSF17 MSRC\$:SATSSF17/UPDATE=(ENH\$:SATSSF17)+EXECML\$/LIB+LIB\$:UETP/LIB

0409 AH-BT13A-SE

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